No.



8300144

THE DUNKIED STAVIES OF AMERICA

TO ALL TO VHOM THESE PRESENTS SHALL COME:

Pioneer Hi-Bred International, Inc.

Wilherens, there has been presented to the

Secretary of Agriculture

AN APPLICATION REQUESTING A CERTIFICATE OF PROTECTION FOR AN ALLEGED NOVEL VARIETY OF SEXUALLY REPRODUCED PLANT, THE NAME AND DESCRIPTION OF WHICH ARE CONTAINED IN THE APPLICATION AND EXHIBITS, A COPY OF WHICH IS HEREUNTO ANNEXED AND MADE A PART HEREOF, AND THE VARIOUS REQUIREMENTS OF LAW IN SUCH CASES MADE AND PROVIDED HAVE BEEN COMPLIED WITH, AND THE TITLE THERETO IS, FROM THE RECORDS OF THE PLANT VARIETY PROTECTION OFFICE; IN THE APPLICANT(S) INDICATED IN THE SAID COPY, AND WHEREAS, UPON DUE EXAMINATION MADE, THE SAID APPLICANT(S) IS (ARE) ADJUDGED TO BE ENTITLED TO A CERTIFICATE OF PLANT, ARIETY PROTECTION UNDER THE LAW.

NOW, THEREFORE, THIS CERTIFICATE OF PLANT VARIETY PROTECTION IS TO GRANT UNTO THE SAID APPLICANT(S) AND THE SUCCESSORS, HEIRS OR ASSIGNS OF THE SAID APPLICANT(S) FOR THE TERM OF CIGHTEEN THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF VIABLE BASIC SEED OF THE VARIETY IN A PUBLIC, REPOSITORY AS PROVIDED BY LAW, THE RIGHT TO EXCLUDE OTHERS FROM SELLING THE VARIETY, OR OFFERING IT FOR SALE, OR REPRODUCING IT, IMPORTING IT, OR EXPORTING IT, OR USING OF IN PRODUCING A HYBRID OR DIFFERENT TY THEREFROM, TO THE EXTENT PROVIDED BY THE PLANT VARIETY PROTECTION ACT

CORN

'207'

In Lestimony Whereof, I have hereunto set my hand and caused the seal of the Plant Variety Protection Office to be affixed at the City of Washington this 21st day of December in the year of our Lord one thousand nine hundred and eighty-four.

John R Block

Secretary of Agriculture

| 1. NAME OF APPLICANT(S) Pioneer Hi-Bred Intern 4. ADDRESS (Street and No. or R.F.D. of Plant Breeding Division Department of Corn Breeding Division Department of Corn Breeding Division Department of Corn Breeding Division Bree | No., City, State, and Zip Code on eeding IA 50131-0085 7. FAMILY No. | 515/270-3300 AME (Botanical) | PVPO | FOR OFFICIAL USE ONLY NUMBER 8300144 | |
|--|--|--|----------------------|--|--------------------|
| Pioneer Hi-Bred Interr 4. ADDRESS (Street and No. or R.F.D. or Plant Breeding Division Department of Corn Breeding Division Department of Corn Breeding Division Box 85, Johnston, Box 86, John | No., City, State, and Zip Code on eeding IA 50131-0085 7. FAMILY No. | 5. PHONE (Include area code) 515/270-3300 AME (Botanical) | PVPO | FOR OFFICIAL USE ONLY NUMBER 8300144 | |
| 4. ADDRESS (Street and No. or R.F.D. or Plant Breeding Division Department of Corn Breeding Division, Box 85, Johnston, Box 86, KIND NAME Corn 10. IF THE APPLICANT NAMED IS NO. | No., City, State, and Zip Code on eeding IA 50131-0085 7. FAMILY No. | 515/270-3300 AME (Botanical) | PVPO | FOR OFFICIAL USE ONLY NUMBER 8300144 DATE | |
| Plant Breeding Division Department of Corn Breeding P.O. Box 85, Johnston, 6. GENUS AND SPECIES NAME Zea mays 8. KIND NAME Corn | on eeding IA 50131-0085 7. FAMILY N | 515/270-3300 AME (Botanical) | | NUMBER 8300144 | |
| Zea mays 8. KIND NAME Corn 10. IF THE APPLICANT NAMED IS NO | Gramin | | 5MI | | |
| Zea mays 8. KIND NAME Corn 10. IF THE APPLICANT NAMED IS NO | | eae | | | |
| Corn 10. IF THE APPLICANT NAMED IS NO | | | 量 | 6/1/83 TIME 8:00 | — —] Р.М. |
| 10. IF THE APPLICANT NAMED IS NO | | 9. DATE OF DETERMINATION | | AMOUNT FOR FILING | |
| 10. IF THE APPLICANT NAMED IS NO partnership, association, etc.) | | 1973 | RECEIVED | \$1,000 DATE 6/1/83 | |
| | T A "PERSON," GIVE FOR | M OF ORGANIZATION (Corporation | EES RE | AMOUNT FOR CERTIFICA | TE |
| Corporation | | | | DATE 11/15/84 | |
| 11. IF INCORPORATED, GIVE STATE IOWA | OF INCORPORATION | The second secon | | ATE OF INCORPORATION | |
| Exhibit A, Origin and Breeding Section 52 of the Plant Variety b. X Exhibit B, Novelty Statement | Protection Act.) | from Plant Variety P | rotection | otion of the Variety | |
| 15. DOES THE APPLICANT(S) SPECIF SEED? (See Section \$3(a) of the Pla | nt Variety Protection Act.) | Yes (If "Yes," answe | r items 1 | 6 and 17 below) | X No |
| 16. DOES THE APPLICANT(S) SPECIF LIMITED AS TO NUMBER OF GEN | | 17. IF "YES" TO ITEM 16, BEYOND BREEDER SE | | CLASSES OF PRODUCTION | 4 |
| Y++ No | | Foundation | | egistered Cer | tified |
| Designated as PI0165 | | ARIETY IN THE U.S. OR OTHER CO | UNTRIE | Yes (If "Yes," g of countries and | |
| West Germany 11-25- France 02-11- | · · | | | ☐ No | |
| 19. HAVE RIGHTS BEEN GRANTED ! | | UNTRIES? | | | |
| Designated as PI0165 | | T. | | Yes (If "Yes," g | |
| West Germany 09-19- France Pendin | | • | | □ No | |
| 20. The applicant(s) declare(s) that a | a viable sample of basic see | | d with | the application and will b | e re- |
| plenished upon request in accord The undersigned applicant(s) is (distinct, uniform, and stable as re Variety Protection Act. | are) the owner(s) of this s | is as may be applicable. sexually reproduced novel plant v. d is entitled to protection under t | ariety, a he prov | and believe(s) that the var isions of Section 42 of the | iery is e Plant |
| Applicant(s) is (are) informed th | at false representation her | rein can jeopardize protection and | i result | in penalties. | |
| Pioneer Hi-Bred Inter by: | national, Inc. | | ٥ | ATE | |
| 1337 | <u></u> | <u></u> | ı | | |
| SIGNATURE OF APPLICANT | | | מ | ATE | - |

14A. Exhibit A. Origin and Breeding History

Pedigree: G3BD2/G3RZ1)X154X1X

Pioneer line '207', Zea mays L., a yellow dent corn inbred, was developed by Pioneer Hi-Bred International, Inc. from the F2 population of the single cross G3BD2 x G3RZ1. The progenitors of '207' are also proprietary inbred lines of Pioneer Hi-Bred International, Inc. The pedigree method of breeding was used in the development of this inbred as per the following.

F2 seed was obtained in the field at Homestead, Florida, during the winter of 1968-69 by selfing the Fl hybrid G3BD2 x G3RZ1. In 1969, the F2 population was grown in the field at Tipton, Indiana, and selected plants were self-pollinated. Two ears from the F2 were saved and grown ear to row during the winter of 1969-70 at Homestead. Selfed ears from ear-row number 1 were saved from the F3 population. The F4 family was grown in the nursery at Tipton during the summer of 1970 and was observed for agronomic performance (not selfed). The F4 was topcrossed to a single cross tester for the purpose of yield testing in 1971 to give an estimate of the line's general combining ability. During the winter of 1970-71, the F4 family was again grown ear to row at Homestead and selected plants were self-pollinated. In 1971, the F5 family was grown ear to row at Tipton and self-pollinated to produce F6 seed. Yield trials were also conducted at Tipton involving the testcross made in 1970 Based on yield test performance and nursery observations, the to the F4. line was determined to possess some superior qualities relative to other inbreds evaluated and was selected for advancement to the next Seed was saved from ear number 4 of the F5 generation. 1972, more hybrid combinations were tested, and the line was again self-During the winter of 1972-73, the F7 generation was grown at Homestead and self-pollinated to give F8 seed. After summarizing the data from yield test evaluations conducted in 1972 involving testcross combinations, it was decided to name the line '207' in January 1973. Since the time the line was named, additional hybrid combinations have been evaluated and subsequent generations of the line have been grown and hand-pollinated with observations made for uniformity. An outline of the breeding profile of the inbred is attached.

'207' has shown uniformity and stability for all traits as described in Exhibit C (form LPGS-470-28) - "Objective Description of Variety." It has been self-pollinated and ear-rowed a sufficient number of generations with careful attention paid to uniformity of plant type to assure genetic homozygosity and phenotypic stability. '207' has been increased by the Parent Corn Department, Pioneer's foundation seed group, every year since 1974. The line has been increased both by hand and in isolated fields with continued observation for uniformity.

No variant traits have been observed or are expected in '207'.

Pioneer Hi-Bred International, Inc., Des Moines, Iowa, is the employer of the plant breeders involved in the selection and development of '207'. Pioneer Hi-Bred International, Inc. has the sole rights and ownership of '207'.

14A. Exhibit A. Origin and Breeding History of Corn Inbred Line '207'

| Season/Year | Inbreeding Level | Nursery Location | <u>Pedigree</u> |
|----------------|---------------------|---------------------|--------------------|
| Summer 1968 | F0 | Tipton, IN | Fl cross made. |
| Winter 1968-69 | Fl | Homestead, FL | G3BD2/G3RZ1 |
| Summer 1969 | F2 | Tipton, IN | G3BD2/G3RZ1)X |
| Winter 1969-70 | F3 | Homestead, FL | G3BD2/G3RZ1)X1 |
| Summer 1970 | F4* | Tipton, IN | G3BD2/G3RZ1)X15 |
| Winter 1970-71 | F4 | Homestead, FL | G3BD2/G3RZ1)X15 |
| Summer 1971 | F5** | Tipton, IN | G3BD2/G3RZ1)X154 |
| Summer 1972 | F6 | Tipton, IN | G3BD2/G3RZ1)X154X |
| Winter 1972-73 | F7 | Homestead, FL | G3BD2/G3RZ1)X154X1 |
| January 1973 | Line named ' | 207'. | |

Subsequent generations of '207' have been increased by hand-pollination and in isolated fields with observations made for uniformity.

^{*}Testcross made for yield testing in 1971.

^{**}More hybrid combinations made involving '207'.

14B. Exhibit B. Novelty Statement

'207' is most similar to the public inbred line W153R. '207' differs from W153R by glume color, silk color, and cob color. '207' has a reddish-purple colored glume with a secondary color of olive-green. The glume color for W153R is green. The anther color of '207' is red, whereas the anther color of W153R is reddish-brown. Silk color of '207' is red, whereas silk color of W153R is green. '207' has reddish-orange colored cobs; W153R has reddish-brown colored cobs.

U.S. DEPARTMENT OF AGRICULTURE AGRICULTURAL MARKETING SERVICE LIVESTOCK, POULTRY, GRAIN & SEED DIVISION BELTSVILLE, MARYLAND 20705

OBJECTIVE DESCRIPTION OF VARIETY CORN (ZEA MAYS)

| Pioneer Hi-Bred International, Inc. ADDRESS (Street and No. or R.F.D. No., City, State, and ZIP Code) | FFICIAL USE ONLY |
|--|---|
| ADDRESS (Street and No. or R.F.D. No., City, State, and ZIP Code) Plant Breeding Division Department of Corn Breeding P. O. Box 85 Johnston, IA 50131-0085 | በ ስ ተ <i>ለ</i> ቋ |
| Plant Breeding Division Department of Corn Breeding P. O. Box 85 Johnston, IA 50131-0085 | UU144 |
| P. 0. Box 85 Johnston, IA 50131-0085 | OR TEMPORARY |
| Johnston, IA 50131-0085 | • |
| | • |
| Place a zero in first box (e-s- 0 8 9 or 0 9) when number is either 99 or less or 9 or less. | |
| 1. TYPE: | |
| 2 1 = SWEET 2 = DENT 3 = FLINT 4 = FLOUR 5 = POP 6 = 0 | NAMENTAL |
| 2. REGION WHERE BEST ADAPTED IN THE U.S.A.: | |
| 1 = NORTHWEST 2 = NORTHCENTRAL 3 = NORTHEAST 4 = SOUT 5 = SOUTHCENTRAL 6 * SOUTHWEST 7 = MOST REGIONS | HEAST |
| 3. MATURITY (In Region of Best Adaptability): (Under "comments" (pg. | |
| heat units were calculated |) T UNITS |
| 7 3 DAYS FROM EMERGENCE TO 50% OF PLANTS IN SILK 1 3 9 0 | IUNIIS |
| DAYS FROM 50% SILK TO OPTIMUM EDIBLE QUALITY HEAT | UNITS |
| DAYS FROM 50% SILK TO HARVEST AT 25% KERNEL MOISTURE HEAT | UNITS |
| 4. PLANT: | |
| 2 2 0 CM. HEIGHT (To tassel tip) 0 8 0 CM. | AR HEIGHT (To base of top ea |
| 0 7 CM. LENGTH OF TOP EAR INTERNODE | |
| | |
| | |
| Number of Tillers: Number of Ears Per Stalk: | |
| Number of Tillers: Number of Ears Per Stalk: | |
| 1 1 = NONE 2 = 1-2 3 = 2-3 4 = >3 1 1 = SINGLE 2 = SLIGHT TWO-1 | |
| | |
| 1 = NONE 2 = 1-2 3 = 2-3 4 = >3 1 1 = SINGLE 2 = SLIGHT TWO-I | |
| 1 = NONE 2 = 1-2 3 = 2-3 4 = >3 1 1 = SINGLE 2 = SLIGHT TWO-I | |
| 1 1 = NONE 2 = 1-2 3 = 2-3 4 = >3 1 1 = SINGLE 2 = SLIGHT TWO-I 3 = STRONG TWO-EAR TENDENCE Cytoplesm Type: 1 1 = NORMAL 2 = "T" 3 = "S" 4 = "C" 5 = OTHER (Specify) | |
| 1 1 = NONE 2 = 1-2 3 = 2-3 4 = >3 1 1 = SINGLE 2 = SLIGHT TWO-I 3 = STRONG TWO-EAR TENDENC Cytoplesm Type: 1 1 = NORMAL 2 = "T" 3 = "S" 4 = "C" 5 = OTHER (Specify) 5. LEAF (Field Corn Inbred Examples Given): | |
| 1 1 = NONE 2 = 1-2 3 = 2-3 4 = >3 1 1 = SINGLE 2 = SLIGHT TWO-I 3 = STRONG TWO-EAR TENDENCY Cytoplesm Type: 1 1 = NORMAL 2 = "T" 3 = "S" 4 = "C" 5 = OTHER (Specify) 5. LEAF (Field Corn Inbred Examples Given): Color: Observed olive green | Y 4 = THREE-EAR TENDENC |
| 1 1 = NONE 2 = 1-2 3 = 2-3 4 = >3 1 1 = SINGLE 2 = SLIGHT TWO-I 3 = STRONG TWO-EAR TENDENCY Cytoplesm Type: 1 1 = NORMAL 2 = "T" 3 = "S" 4 = "C" 5 = OTHER (Specify) 5. LEAF (Field Corn Inbred Examples Given): Color: | |
| 1 1=NONE 2=1-2 3=2-3 4=>3 1 1=SINGLE 2=SLIGHT TWO-I 3=STRONG TWO-EAR TENDENC Cytoplasm Type: 1 1=NORMAL 2="T" 3="S" 4="C" 5=OTHER (Specify) 5. LEAF (Field Corn Inbred Examples Given): Color: Observed olive green 1 = LIGHT GREEN (HY) 2 = MEDIUM GREEN (WF9) 3 = DARK GREEN (B14) | Y 4 = THREE-EAR TENDENC |
| 1 1 = NONE 2 = 1-2 3 = 2-3 4 = >3 1 1 = SINGLE 2 = SLIGHT TWO-I 3 = STRONG TWO-EAR TENDENCY Cytoplasm Type: 1 1 = NORMAL 2 = "T" 3 = "S" 4 = "C" 5 = OTHER (Specify) 5. LEAF (Field Corn Inbred Examples Given): Color: Observed olive green | Y 4 = THREE-EAR TENDENC |
| 1 1 = NONE 2 = 1-2 3 = 2-3 4 = >3 1 1 = SINGLE 2 = SLIGHT TWO-I 3 = STRONG TWO-EAR TENDENCY Cytoplasm Type: 1 1 = NORMAL 2 = "T" 3 = "S" 4 = "C" 5 = OTHER (Specify) 5. LEAF (Field Corn Inbred Examples Given): Color: Observed olive green 1 = Light Green (HY) 2 = MEDIUM GREEN (WF9) 3 = DARK GREEN (B14) Angle from Stalk (Upper half): Sheath Pubscence: | Y 4 = THREE-EAR TENDENC |
| 1 1 = NONE 2 = 1-2 3 = 2-3 4 = >3 1 1 = SINGLE 2 = SLIGHT TWO-I 3 = STRONG TWO-EAR TENDENCY Cytoplasm Type: 1 1 = NORMAL 2 = "T" 3 = "S" 4 = "C" 5 = OTHER (Specify) 5. LEAF (Field Corn Inbred Examples Given): Color: Observed olive green 1 = LIGHT GREEN (HY) 2 = MEDIUM GREEN (WF9) 3 = DARK GREEN (B14) Angle from Stalk (Upper half): Sheath Pubscance: | Y 4 = THREE-EAR TENDENC |
| 1 1 = NONE 2 = 1-2 3 = 2-3 4 = >3 1 1 = SINGLE 2 = SLIGHT TWO-I 3 = STRONG TWO-EAR TENDENCY Cytoplasm Type: 1 1 = NORMAL 2 = "T" 3 = "S" 4 = "C" 5 = OTHER (Specify) 5. LEAF (Field Corn Inbred Examples Given): Color: Observed olive green 1 = Light Green (HY) 2 = MEDIUM GREEN (WF9) 3 = DARK GREEN (B14) Angle from Stalk (Upper half): Sheath Pubscence: 2 1 = < 30° 2 = 30-60° 3 = > 60° 1 1 = LIGHT (W22) 2 = MEDIUM GREEN (WEST) | Y 4 = THREE-EAR TENDENC |
| 1 1 = NONE 2 = 1-2 3 = 2-3 4 = >3 1 1 = SINGLE 2 = SLIGHT TWO-I 3 = STRONG TWO-EAR TENDENC Cytoplasm Type: 1 1 = NORMAL 2 = "T" 3 = "S" 4 = "C" 5 = OTHER (Specify) 5. LEAF (Field Corn Inbred Examples Given): Color: Observed olive green 1 = Light Green (HY) 2 = MEDIUM GREEN (WF9) 3 = DARK GREEN (B14) Angle from Stalk (Upper half): Sheath Pubscence: 2 1 = < 30° 2 = 30-60° 3 = > 60° 1 1 = LIGHT (W22) 2 = MEDIUM GREEN (WF9) Marginal Waves: Longitudinal Creases: | 4 = THREE-EAR TENDENC 4 = VERY DARK GREEN (K1) |
| 1 1 = NONE 2 = 1-2 3 = 2-3 4 = >3 1 1 = SINGLE 2 = SLIGHT TWO-IS 3 = STRONG TWO-EAR TENDENCY Type: 1 1 = NORMAL 2 = "T" 3 = "S" 4 = "C" 5 = OTHER (Specify) 5. LEAF (Field Corn Inbred Examples Given): Color: Observed olive green 1 = Light Green (HY) 2 = MEDIUM GREEN (WF9) 3 = DARK GREEN (B14) Angle from Stalk (Upper half): Sheath Pubscence: 1 1 = Light (W22) 2 = MEDIUM GREEN (WF9) 3 = HEAVY (OH26) Marginal Waves: Longitudinal Creases: | Y 4 = THREE-EAR TENDENC |
| 1 1 = NONE 2 = 1-2 3 = 2-3 4 = >3 1 1 = SINGLE 2 = SLIGHT TWO-I Cytoplasm Type: 1 1 = NORMAL 2 = "T" 3 = "S" 4 = "C" 5 = OTHER (Specify) 5. LEAF (Field Corn Inbred Examples Given): Color: Observed olive green 1 = Light Green (HY) 2 = MEDIUM GREEN (WF9) 3 = DARK GREEN (B14) Angle from Stalk (Upper half): Sheath Pubscance: 2 1 = < 30° 2 = 30-60° 3 = > 60° 1 1 = Light (W22) 2 = M 3 = HEAVY (OH26) Marginal Waves: Longitudinal Creases: 2 1 = NONE (HY) 2 = FEW (WF9) 3 = MANY (OH7L) 1 1 = ABSENT (OH51) 2 | 4 = THREE-EAR TENDENC 4 = VERY DARK GREEN (K1) |
| 1 1 = NONE 2 = 1-2 3 = 2-3 4 = >3 1 1 = SINGLE 2 = SLIGHT TWO-IS 3 = STRONG TWO-EAR TENDENCY Cytoplasm Type: 1 1 = NORMAL 2 = "T" 3 = "S" 4 = "C" 5 = OTHER (Specify) 5. LEAF (Field Corn Inbred Examples Given): Color: Observed olive green 2 = MEDIUM GREEN (WF9) 3 = DARK GREEN (B14) Angle from Stalk (Upper half): Sheath Pubscence: 2 1 = < 30° 2 = 30-60° 3 = > 60° 1 1 = LIGHT (W22) 2 = N 3 = HEAVY (OH26) Marginal Waves: Longitudinal Creases: 2 1 = NONE (HY) 2 = FEW (WF9) 3 = MANY (OH7L) 1 1 = ABSENT (OH51) 2 3 = MANY (PA11) | 4 = THREE-EAR TENDENC 4 = VERY DARK GREEN (K1) |

| | 6. | TASSEL: | | | | . + | | | | | , | |
|-----|--------------|------------------|-------------------------------|-----------------|---------------------------------------|---------------------------------------|------------------|---------------|-----------------------|---------------------|---------------------------------------|--------|
| | | 1 5 | NUMBER OF | LATERAL | BRANCHES | | | | • | | | |
| | | | | | | | | | | | • | |
| | | Branch Angl | e from Central S | ipike: | 4 | | Penduncie L | _ | | - 4 | | 1. |
| | | 2 | 1 = < 30* | 2 = 30-4 | o• 3≠> | > 45° | 2 | 2 см. | FROM TO | PLEAF TO BASA | L BRANCH | ES |
| | | Pollen Shed: | · | | | | | | | | | |
| | | [2] | | - | | | | | | ~ | | |
| | | | 1 = LIGHT (W | F9) | 2 = MED | tUM | 3 = H | EAVY(KY21 |) | | | |
| | | 3 | Anther Color: Glume Color: | 1 = YI 6 = 0 | urplish re ELLOW THER (Specify) | 2 = PINK | 3 | = RED | 4 = P | URP L E | 5 = GREEN | |
| | | Pollen Resto | Observed pration for Cyto; | plasms (o = | Not Tested, 1 = 1 | artial, 2 = Go | od) | 5 | | • | | • |
| | | <u>О</u> т | 0 | "s" | 0 "c" | 01 | HER (Specif | fy Cytoplasm | and degree | s of restoration) _ | · · · · · · · · · · · · · · · · · · · | |
| _ | | F 4 5 /11 | | | | | | | | | | |
| | . 7. | . EAR (Husk | ed Ear Data Exc | ept When S | tated Otherwise) - | ; | <u> </u> | | | | | |
| | | 1 6 | CM LENGTH | 4 1 | MM, MID-PO DIAMETER | INT | 1 1 | 5 дм | , WEIGHT | | | |
| | | Kernel Rows | 5: | : . | | | | | | | | |
| | | 2 | 1 = INDISTING | cT | 2 = DISTIN | СТ | 1 | 4 NUN | 1BER | | | |
| 1 s | | 1 | 1 = STRAIGHT | r | 2 = SLIGHTLY | CURVED | ::3 = 1 | SPIRAL | | | · . | ¢ |
| | | Silk Color (E | Exposed at Silkir | ng Stage): | | | | | | | | |
| - | | 4 | 1 = GREEN | 2 = | PINK | 3 = SALMON | i | 4 = RED | | | · | * |
| | | | | | · • | | *. | | • • | | | |
| | | Husk Color: | Observed FRESH | | ellow gree LIGHT GREEN | | 2 = DAR | K GREEN | · | 3 = PINK | | |
| | | | DRY | }. | RED | 5 = PL | 1801 E | . 6 | ≂ BUFF | | | |
| | | 6 Husk Extent | Observed | , | | 5-70 | Husk Leaf: | : | | | | |
| | | 3 = LC | ORT (Ears Expo | Beyond Ear | IEDIUM (Barely Tip) | Covering Ear) | 3 | | PT (< 8 NG (> 15 | | UM (8-15 C | :M) |
| | | 4 ≠ VE Shank: | RY LONG (> | 10 CM). | - | | Position at E | Ory Husk Stag | ja: | | ů. | |
| | , | | | | | • | | . T | | | | |
| | ; ; | 1 6 | CM LONG | 7 NO | OF INTERNO | DES | Ļ | <u> </u> | IGHT | 2 = HORIZONT | AL 3 FP | ENDENI |
| | 7 | Taper: | | | | | Drying Time | (Unhusked i | Ear): | | | |
| | | 2 | 1 = SLIGHT | 2 = AVEF | RAGE 3 = E | XTREME | | 1 = SLO | w | 2 = AVERAGE | 3 · F | AST |
| _ | 8. | KERNEL (D | ried): | | | · · · · · · · · · · · · · · · · · · · | | | · · · · · · | | | |
| | | Size (From E | ar Mid-Point): | | | | | • | • | • | ٠ | |
| | | 1 0 | MM LONG | C |) 8 mm. v | VIDE (|) 5 _M | ім, тніск | | | | |
| | | Shape Grade | (% Rounds) | | | .* | • | | - | | · · · · · · | 7 |
| | | 2 | 1 = < 20 | 2 = 20 | –40 | 3 = 40-60 | 4 | = 60-80 | | s = > 80 | | ŧ |

| 8. KERNEL | . (Dried) : | ······································ | | | |
|---------------------|--|--|--|--------------------------|--|
| Ī | Observed translucer Pericarp Color: 1 = COLO 5 = BROW 8 = VABI | RLESS 2 = RED | WHITE CROWN | 3 = TAN 7 = CHERRY ! | 4 = 8RONZÉ RED |
| П | | | EGREGATING (Describe) | <u>.</u> | |
| | Observed opaque whi | Lte | 4 = BROWN | | 5 = 8RONZE 6 = RED |
| | | | ARIEGATED (Describe) | | |
| 3 | Observed pale orang Endosperm Color: 1 = Wi | ge NTE 2 = PALE YELLON | W 3 = YELLOW | 4 = PINK-OR | ANGE 5 - WHITE CAP. |
| Endosper | m Type: | | | | |
| 3 | | 2 = EXTRA SWEET (sh2) 5 = HIGH PROTEIN | 3 = NORMAL STA 7 = HIGH LYSINE | | HIGH AMYLOSE STARCH OTHER (Specify) |
| 2 6 | GM, WEIGHT /100 SEEDS (U | nsized Sample) | - : | | |
| 9. cos: | MM. DIAMETER AT MID-POI | NT | | | |
| Strength: | • | | Color: | | |
| 2 | 1 = WEAK 2 = STRO | NG. | 6 1 - WHITE 2 5 - VARIEGATED | = PINK 3 = 1 | RED 4 = BROWN HER (Specify) Reddish-Oran |
| 10. DISEASI | RESISTANCE (O = Not Tester | `_ | · | | |
| 2 | CTALK BOT (District) | 7 Tolera | | 2 | TALK BOT (O'bb No.) |
| 一一 | STALK ROT (Diplodia) | , | T (Fusarium) | | HALK ROT (Gibberella) |
| 0 | NORTHERN LEAF BLIGHT SOUTHERN RUST | | t (Common) | البيسا | MUT (head smot) MACTERIAL WILT(Stewart's |
| 0 | BACTERIAL LEAF BLIGHT | | ARF MOSAIC | | TUNT |
| | OTHER (Specify) | | | | |
| 11. INSECT | RESISTANCT (O = Not Tested, | 1 = Susceptible, 2 = Resistan | t): | | |
| 0 | CORNBORER (European) ROOTWORM (Northern) | 0 EARWORM 1 ROOTWORM (Western | | BEETLE | O APHID |
| 0 | ROOTWORM (Southern) | OTHER (Specify) | | · | The state of the s |
| 12. VARIETI | ES MOST CLOSELY RESEMBI | ING THAT SUBMITTED FO | OR THE CHARACTERS G | IVEN: | <u> </u> |
| CHARAC | TER | VARIETY | CHARACTER | | VARIETY |
| Maturity | | W15 3R | Kernel Type | | W15 3R |
| Plant Type Ear Type | 0 | W15 3R W15 3R | Quality (Edibl | e) | W15 3R |
| | | <u> </u> | Usage | | ACCIM_ |
| REFERE | NCES: U.S. Department Agriculture. \ | earbook 1937. | | | |
| | Corn: Culture, Processing, Prod | · · | ompany, Westport, Connect | ticut. (Numerou | s (Authors) |
| | Emerson, R.A., G.W. Beadle, an | | • | Cornell A.E.S., N | lem. 180. 1935. |
| | The Mutants of Maize. 1968. C Stringfield, G.H. Maize Inbred I. | · · | | | |
| | Butler, D.R. 1954 – A System | · · · · · · · · · · · · · · · · · · · | 1 | s, Ohio State Un | iversity. |
| COMMEN | LO = Minimum air | temperature in E temperature in E | Tahrenheit, but m Tahrenheit, but m | not greate not less t | r than oo. |
| | Heat Units = (Hi | + LO)/2 - 50, bu | ir inc ress rugu | ٠. | |

14D. Exhibit D. Additional Description of '207'

'207' is a yellow dent inbred line of corn, Zea mays L.

As an inbred per se, '207' is similar to the public inbred line W153R. '207'reaches 50% pollen shed and 50% silk at 1349 and 1390 heat units, respectively. It makes hybrids with an average Minnesota relative maturity of 98 days. These hybrids are best adapted to the Northern Corn Belt of the U.S.

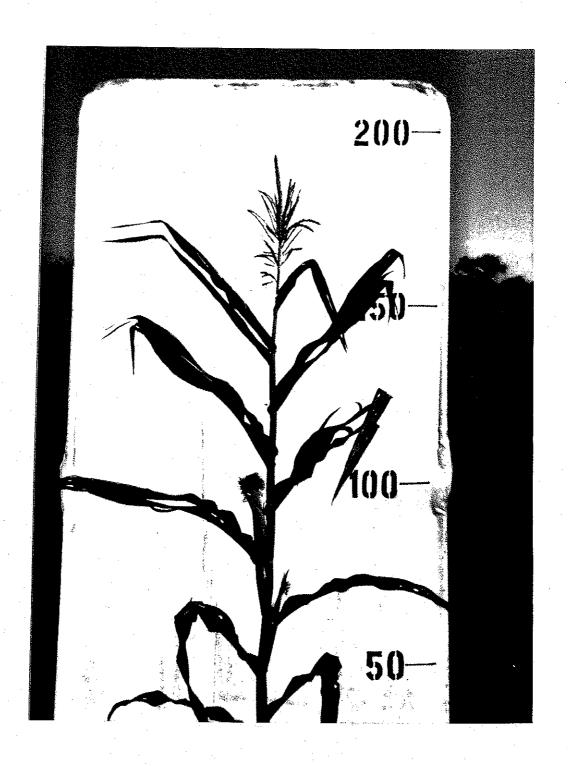
In hybrids, '207' has above average yield for its maturity and shed date. Standability (both stalk and root quality) is well above average. For its maturity, '207' contributes good late-season plant health to hybrids. Although they germinate well, '207' hybrids are slightly below average for seedling vigor. Most of the other important agronomic traits are average or better. Hybrids involving '207' are average to slightly above average for plant and ear height.

'207' has shown average to above average tolerance to Northern corn leaf blight (Helminthosporium turcicum), Helminthosporium leaf spot (Helminthosporium carbonum), eye spot (Kabatiella zeae), Goss's wilt (Corynebacterium nebraskense), MDM virus, and to corn lethal necrosis virus disease. It is below average for tolerance to Southern corn leaf blight (Helminthosporium maydis), grey leaf spot (Cercospora zeae), anthracnose (Colletotrichum graminicola), common rust (Puccinia sorghi), Stewart's bacterial wilt (Erwinia stewartii), head smut (Sphacelotheca reiliana), and sorghum downy mildew (Sclerospora sorghi).

A distinguishing characteristic of $^1207^1$ is that it has a purple plumule in the embryo of the kernel. It also has the appropriate genetic makeup that results in purple anthocyanin synthesis under cool temperature conditions early in the spring. This results in purple colored seedlings when ambient day/night temperatures are in the neighborhood of $65^{\circ}F/40^{\circ}F$ for a few weeks. The purple seedling trait of $^1207^1$ is passed along to its hybrids.

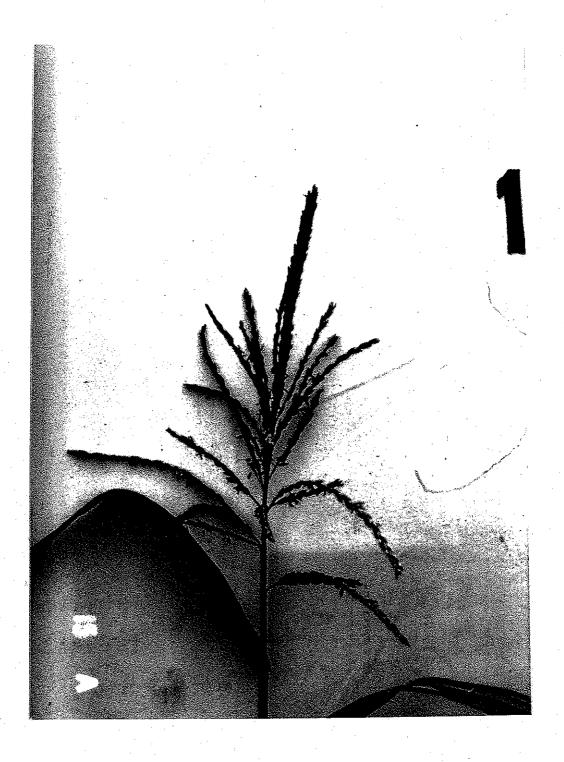
14D. Exhibit D. Additional Description of 207 (continued)

A. Whole plant



14D. Exhibit D. Additional Description of 207 (continued)

B. Tassel



14D. Exhibit D. Additional Description of 207 (continued)

C. Ear

